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APPLICATION N	O. F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/051,774			Raymond T. Hsu	PA020106	1529
23696	7590	04/15/2004		EXAMINER	
	m Incorpor	rated	ESCALANTE, OVIDIO		
	ehouse Driv	e .	ART UNIT	PAPER NUMBER	
	, CA 9212		2645	7	
				DATE MAILED: 04/15/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

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μ.		Application No.	Applicant(s)					
Office Action Summary		10/051,774	HSU ET AL.					
		Examiner	Art Unit					
		Ovidio Escalante	2645					
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1) 又	Responsive to communication(s) filed on 09 Fe	ebruary 2004.						
'=		action is non-final.						
′=	· -	nce except for formal matters, pro	secution as to the merits is					
.—	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.					
Disposit	ion of Claims							
 4) Claim(s) 1-5,8-10,13,15-19,22,23,27-31,34,35,37 and 38 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-5,8-10,13,15-19,22,23,27-31,34,35,37 and 38 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 								
Applicat	ion Papers							
9)[The specification is objected to by the Examine	r.						
10)	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11)	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority (under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
Attachment(s)								
1) Notice 2) Notice 3) Inform	the of References Cited (PTO-892) the of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) the No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:						

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DETAILED ACTION

1. This action is in response to applicant's amendment filed on February 9, 2004. Claims 1-5,8-10,13,15-19,22-23,27-31-34-35,37-38 are now pending in the present application.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 3. Claims 16-19,22-23 and 27 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 4. Claim 16 recites the limitation "said first BCMCS ID" in line 4 and "said second BCMCS ID" in line 6. There is insufficient antecedent basis for this limitation in the claim.

Claims 17-19,22-23 and 27 are rejected because they depend upon a rejected claim.

Claim Rejections - 35 USC § 102

- 5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
 - (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 6. Claims 1 and 38 are rejected under 35 U.S.C. 102(e) as being anticipated by Hsu et al. US Patent Pub. 2003/0054807.

Regarding claims 1 and 38, Hsu teaches in a wireless communication system and apparatus supporting a broadcast service, (paragraphs 13 and 71), a method and means for:

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providing a BCMCS ID to identify the broadcast service, wherein an IP multicast address and UDP port number are associated with said BCMCS ID, (paragraph 60 and fig. 8; "RTP/UDP/IP");

sending the BCMCS ID to a base station (fig. 4; paragraphs 49 and 60);

configuring a broadcast service parameters message at the base station that includes the BCMCS ID, (paragraph 60);

transmitting the broadcast service parameters message to a mobile station (fig. 4; paragraph 60) and;

using the BCMCS ID in the broadcast service parameters message at the mobile station to determine availability of the broadcast service in an adjacent sector, (paragraphs 83,93 and 99).

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

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9. Claims 1-3,5,15-17,19,27-2931,37 and 38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sato in view of Hsu et al. US Patent Pub. 2003/0054807.

Regarding claims 1 and 38, Sato teaches in a wireless communication system and apparatus supporting a broadcast service, (abstract; fig. 24), a method and means for:

providing a BCMCS ID to identify the broadcast service, (fig. 25; page 38, line 17-page 39, line 2; [¶185, ¶186]), wherein an IP multicast address is associated with said BCMCS ID, (fig. 25; page 38, line 24-page 39, line 2);

sending the BCMCS ID to a base station (fig. 25; 110-1; page 38, lines 17-23; [¶185]); configuring a broadcast service parameters message at the base station that includes the BCMCS ID, (page 38, line 17-page 39, line 2; page 40, lines 25-page 41, line 5; [¶185, ¶186, ¶195]);

transmitting service parameters message to a mobile station (120), (page 32, line 24-page 33, line 1; page 38, line 17-page 39, line 2; page 40, line 25-page 41, line 5; [¶155, ¶185, ¶186,¶197]); and

using the BCMCS ID in the broadcast service parameters message at the mobile station to determine availability of the broadcast service in an adjacent sector, (page 29, lines 7-10; page 40, lines 25-page 41, line 5; [¶59,¶197]).

While Sato teaches of providing a BCMCS ID and wherein an IP multicast address is associated with the BCMCS ID, Sato does not specifically teach of providing a UDP port number and associating the UDP port number with the BCMCS ID. However Sato suggests this since Sato teaches of using the Internet for transmitting the broadcast service information and it

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was well known in the art that UDP is used with the TCP/IP protocol for generating packets in the Internet system.

Nonetheless, Hsu teaches of a wireless communication system and apparatus supporting a broadcast service, (paragraphs 13and 71) and providing a BCMCS ID to identify the broadcast service, wherein an IP multicast address and UDP port number are associated with said BCMCS ID, (paragraph 60 and fig. 8; "RTP/UDP/IP").

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Sato by providing a UDP port number with the BCMCS ID so that the base station can receive the multi-broadcast server through the Internet and the multi-broadcast service traffic can be effectuated between the content server and the mobile user.

Regarding claim 2, Sato teaches wherein the broadcast service is transmitted by a content server, (page 24, lines 17-24; [¶112]).

Regarding claim 3, Sato teaches wherein the broadcast service has a service name (program title), (fig. 25).

Regarding claim 5,19 and 31, Sato teaches wherein the BCMCS ID is a globally unique BCMCS ID issued by a global issuer, (fig. 2; page 4, lines 13-26; [¶15]; servers 251,252,253 issue a unique service ID to other servers).

Regarding claim 15,27 and 37, Sato teaches wherein the BCMCS_ID is a dual BCMCS_ID comprising a global indicator to indicate uniqueness of the BCMCS_ID, (fig. 25; page 38, line 24-page 39, line 2; [¶186]).

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Regarding claim 16, Sato teaches a base station (110-1) for use in a wireless communication system supporting a broadcast service, (abstract; fig. 24), wherein the base station is receiving a first broadcast service identified by a first BCMCS ID, wherein an IP Multicast address is associated with said first BCMCS ID, (fig. 25; page 38, line 24-page 39, line 2) and wherein the base station has a neighbor base station receiving a second broadcast service identified by a second BCMCS ID, (fig. 24; page 40, lines 25-page 41, line 5; page 42, lines 22-page 43, line 1; [¶197, ¶206]), wherein an IP multicast address is associated with said second BCMCS ID and wherein the base station is configured to implement a method comprising: receiving the second BCMCS ID that identifies the second broadcast service, (page 40, line 25-page 41, line 5; [¶197]);

configuring neighbor configuration data that relates to the second broadcast service, (page 40, line 25-page 41, line 5;page 42, lines 1-6; [¶197, ¶202]);

configuring a broadcast service parameters message that includes the second BCMCS ID and the neighbor configuration data, (page 42, lines 22-page 43, line 20; [¶206-¶209]); and transmitting the broadcast service parameters message to a mobile station currently receiving the first broadcast service, (page 32, line 24-page 33, line 1; page 40, line 25-page 41, line 5; page 42, line 22-page 43, line 1; [¶155, ¶197, ¶206]).

While Sato teaches of providing a BCMCS ID and wherein an IP multicast address is associated with the BCMCS ID, Sato does not specifically teach of providing a UDP port number and associating the UDP port number with the BCMCS ID.

Hsu teaches of a wireless communication system and apparatus supporting a broadcast service, (paragraphs 13 and 71) and providing a BCMCS ID to identify the broadcast service,

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wherein an IP multicast address and UDP port number are associated with said BCMCS ID, (paragraph 60 and fig. 8; "RTP/UDP/IP").

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Sato by providing a UDP port number with the BCMCS ID so that the base station can receive the multi-broadcast server through the Internet and the multi-broadcast service traffic can be effectuated between the content server and the mobile user.

Regarding claims 17 and 29, Sato teaches wherein the first broadcast service and the second broadcast service are transmitted by content servers, (fig. 3; page 3, line 29-page 4, line 8; page 24, lines 17-24, [¶13, ¶112]).

Regarding claim 28, Sato teaches a mobile station (120) for use in a wireless communication system supporting a broadcast service, wherein the mobile station is in a first sector of a first base station approaching a second sector of a second base station, (page 40, line 25-page 41, line 5; page 42, line 22-page 43, line 1; [¶197, ¶206]) and wherein the mobile station is configured to implement a method comprising:

receiving a first broadcast service identified by a first BCMCS ID from the first base station, (page 32, line 24-page 33, line 1; page 38, line 17-page 39, line 2; page 40, line 25-page 41, line 5; page 42, line 22-page 43, line 1, [¶155,¶197, ¶206]), wherein an IP multicast address is associated with said first BCMCS ID, (fig. 25; page 38, line 24-page 39, line 2);

receiving a broadcast service parameters message that includes a second BCMCS ID and neighbor configuration data, wherein the second BCMCS ID identifies a second broadcast service available in the second sector, (page 40, line 25-page 41, line 5; page 42, line 22-page 43,

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line 1; [¶197, ¶206]), wherein the IP multicast address is associated with the second BCMCS ID, (fig. 25; page 38, line 24-page 39, line 2);

examining the neighbor configuration data that relates to the second broadcast service, (page 40, line 25-page 41, line 5;page 42, line 22-page 43, line 8; [¶197, ¶206-¶207]); and determining, based on the neighbor configuration data, whether the first BCMCS ID and the second BCMCS ID identify the same broadcast content whereby reception of the broadcast content is continued in the second sector, (page 40, line 25-page 41, line 5; page 42, line 22-page 43, line 20; [¶197, ¶206-¶209]).

While Sato teaches of providing a BCMCS ID and wherein an IP multicast address is associated with the BCMCS ID, Sato does not specifically teach of providing a UDP port number and associating the UDP port number with the BCMCS ID.

Hsu teaches of a wireless communication system and apparatus supporting a broadcast service, (paragraphs 13 and 71) and providing a BCMCS ID to identify the broadcast service, wherein an IP multicast address and UDP port number are associated with said BCMCS ID, (paragraph 60 and fig. 8; "RTP/UDP/IP").

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Sato by providing a UDP port number with the BCMCS ID so that the base station can receive the multi-broadcast server through the Internet and the multi-broadcast service traffic can be effectuated between the content server and the mobile user.

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10. Claims 4,8,9,10,13,18,22,23,30,34 and 35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sato in view of Hsu and further in view of Chang et al. US Patent Pub. 2002/0102967.

Regarding claims 4,8,9,10-13,18,22-25,30,34 and 35, while Sato teaches of receiving by the content server a BCMCS ID, Sato does not specifically teach of requesting by the content server the BCMCS ID.

However, Sato suggests this since the mobile terminal is requesting content and the content server must be able to request information if the content server is able to retrieve and transmit the information to the mobile terminal.

Nonetheless, Chang teaches that it was well known in the art to request by a content server a BCMCS ID from a global/local issuer, (fig. 2; paragraphs 10-13). Chang further teaches dynamically generating a BCMCS_ID and associating a lifetime value with the BCMCS_ID, (paragraphs 9 and 13).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Sato by requesting content from a global or local issuer and generating a BCMCS_ID as suggested by Chang so that the content server can request data based upon the mobile terminal's needs.

Response to Arguments

11. Applicant's arguments with respect to claims 1-5,8-10,13,15-19,22-23,27-31-34-35,37-38 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

12. Any response to this action should be mailed to:

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Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

or faxed to:

(703) 872-9306, (for formal communications intended for entry)

Or:

(703) 872-9314, (for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ovidio Escalante whose telephone number is (703) 308-6262. The examiner can normally be reached on Monday to Friday from 6:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Fan Tsang, can be reached on (703) 305-4895. The fax phone number for this Group is (703) 872-9306.

Communications via Internet e-mail regarding this application, other than those under 35 U.S.C. 132 or which otherwise require a signature, may be used by the applicant and should be addressed to [fan.tsang@uspto.gov].

All Internet e-mail communications will be made of record in the application file. PTO employees do not engage in Internet communications where there exists a possibility that

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sensitive information could be identified or exchanged unless the record includes a properly signed express waiver of the confidentiality requirements of 35 U.S.C. 122. This is more clearly set forth in the Interim Internet Usage Policy published in the Official Gazette of the Patent and Trademark on February 25, 1997 at 1195 OG 89.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Ovidio Escalante Examiner Group 2645 April 12, 2004

> FAN TSANG SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600

> > Jan 26